

GOVERNMENT ISSUES CALL FOR ENGINEERS

Civil, Mechanical and Electrical
Engineers Needed in Aviation
Coast Artillery, and Naval Reserve—Examinations Soon

PRACTICED ENGINEERS DESIRED

Due to the present scarcity of experienced engineers, a series of examinations for National Service has been opened to men of technical training, in the following subjects: Civil Engineering, Radio Service, Air Service, Electrical Engineering and General Electricity.

The examinations for Civil Engineers in the U. S. Naval Reserve Corps will be held early in 1918 to select an eligibility list for candidates to be enrolled in that service. All applications should be sent to Mr. A. L. Parsons, Acting Chief of Bureau of Yards and Docks, Navy Dept., Washington, D. C. not later than noon of December 31, 1917. The qualifications for this branch of the service are that the applicant must be an American citizen, and a civil engineer, mechanical engineer or in some profession closely related thereto, for a period of at least years.

Candidates for rank of ensign must be at least twenty-four years of age and actively engaged in professional engineering, at least two years for those for the rank of lieutenant (junior grade) must be at least twenty-seven years of age and five years in professional practice, and those for the rank of Senior Lieutenant must be at least thirty years of age, actively engaged in engineering at least for seven years and in charge of work as a principal or assistant for at least three years.

A large number of men are required in the Radio Service (non-flying) of the Army Aviation, especially those who have had considerable experience in radio or other telegraphy. A training school has been established at Camp Kelly, Texas, for the intensive training of operators and mechanics. The course will last from six to eight weeks under the guidance of capable instructors of the Signal Corps, and will consist of instruction in elementary electricity, radio power circuits, primary and secondary circuits, condensers, oscillations, radiated currents, ether, received and transmitted waves, receiving circuits, detectors, wavemeters, and other instruments. The first part of the course will consist of practical work in field operation, communicating with airplanes in flight.

There will also be needed in this service a number of men to install, repair, and care for the wireless sets on the flying machines. All applicants will enlist as privates and remain so until assigned to a squad, when their rating will be raised. Those having two years of college education in electricity or its equivalent, may apply for positions as commissioned officers in the non-flying section of the Aviation Section of the Signal Corps. Applications for this branch of the service may be obtained from the Secretary of the American Institute of Electrical Engineers, 33 West 39th St., New York City, by

(Continued on page 4)

I have been requested by the Secretary of War to inform all students at the Institute that if they wait until they are drafted they can, upon summons to the draft camp, take with them a letter from me setting forth their special qualifications. This letter will be filled with the occupational census questionnaire of the War Department. The Secretary of War also states that every effort will be made to use each student with special training in connection with specialized occupations in the Army, so as to afford technical students of draft age fully as great an opportunity through the draft as if they enlisted now.

(Signed) Richard C. Maclaurin.
December 5, 1917

TECHNOLOGY ORCHESTRA GIVES CONCERT TONIGHT

The Technology Orchestra will give its first concert of the year tonight in Hobbs' Auditorium, Davis square, Somerville. The concert will be followed by dancing.

The hall can be reached by taking the North Cambridge car and getting off at Day street, or by taking the Highland avenue car and getting off at Davis square.

The concert is being given under the auspices of the Clarendon Club.

TECHNIQUE NOTICE

The Notman Photographic Company has been obliged to cancel all appointments for sittings for the Senior Portfolio, except between the hours of 10.00 and 11.00, until after Christmas. All informal photographs and statistic cards must be handed in at the office before Saturday, December 15. All men who have not yet made appointments are requested to make them for after Christmas or for any day between 10.00 and 11.00.

PRESIDENT ROGERS' ANNIVERSARY WILL BE CELEBRATED SATURDAY IN WALKER MEMORIAL

ELECTRICALS TO TAKE TRIP TO GENERAL ELECTRIC WORKS

Next Monday afternoon the Electrical Engineering Society will take a trip to the motor works of the General Electrical Co. at Lynn, Mass. The men who will go are limited to twenty in number and should sign up at the society office in room 10-275. Those going on the trip will leave their fare at the office and a ticket will be bought for the Club as a whole in order that reduced rates may be obtained. The men will meet at North Station, Boston, at 1.30 p.m. Later in the week probably on Thursday, the trip will be repeated.

Prominent Speakers to Tell About the Man Who Founded Technology—Refreshments, Music, and Professional Entertainers Are Planned

PROMINENT TECHNOLOGY MEN TO ATTEND

SATURDAY night at 8.00 o'clock the third annual Founder's Day celebration will take place in the Walker Memorial in honor of the 113th anniversary of the birthday of the founder of Technology, William Barton Rogers. For the first time Founder's Day is to be held in the Walker Memorial, and every effort is being made to have the celebration of this occasion one to be remembered.

The evening will open with appropriate talks upon the great work accomplished by our first President. The principal speech will be delivered by Professor Sedgwick. President Maclaurin will be present. After the speaking, the more informal entertainment will take place. There will be music, and the orchestra has been instructed to confine itself to the really popular pieces. This will be supplemented by professional entertainers, who have been engaged, and there is to be plenty to eat and smoke—that is being taken care of in a violently anti-Hooverian way. There is to be no charge, either for admission or for the refreshments.

In past years this has been one of the really important events upon the Institute's social calendar, and the zeal with which the committee has formulated its plans, indicate that it should even surpass its predecessors.

President Rogers was born in Philadelphia on the seventh of December, 1804, of Scotch-Irish parents. He was one of a family of four boys, all of whom achieved distinction. He came to Boston in 1849, and ten years later formulated his "Memorial for a Polytechnic College." In 1861 the charter was granted by the state with the condition that \$100,000 should be raised within a period of two years. This was accomplished and in 1865 the Institute was formally opened. Its first enrollment totalled fifteen students. A few years later he was forced to withdraw from the presidency because of ill health, but assumed the Presidency again, two years before his death. He remained actively engaged in the executive duties of Technology until the year of his death, 1882. His beautiful death—addressing a graduating class of the

(Continued on page 4)

LT. COL. HORACE BAKER '03 SETS RECORD IN BUILDING ARMY CAMP IN TEXAS

Horace S. Baker '03, who will be remembered as the man who set the N. E. I. A. A. record for the half mile at 1-59, and incidentally on the same day the M. I. T. record for the mile run at 4-30-3-5, has been setting records for camp construction at Camp Bowie, Texas, and has been appointed Lieutenant-Colonel in recognition of beating the schedule for building that camp by a week.

On leaving the Institute Lt. Col. Baker joined the engineering department of the Chicago & Northwestern Ry. and for a number of years has been Assistant City Engineer of Chicago. As a member of the National Guard he spent three months on the border at the time of the Mexican trouble. The formation of the National Army found him a Captain of Engineers, and he was stationed as Constructing Quartermaster at Fort Worth, Texas, having charge of the construction of cantonments at Camp Bowie.

Those who know Lt. Col. Baker are not surprised that he has handled this job, using 6,000,000 feet of lumber and 5000 men, in a way that clipped a week off the schedule, won the respect of workmen and civilians, and the approval of his superiors shown by his promotion to be Lieutenant Colonel of the 111th U. S. Engineers.

WINTER CONCERT NEAR

To Be Held at Hotel Somerset Next Saturday

The sale of tickets for the Winter Concert of the Combined Musical Clubs to be given at the Somerset next week, is progressing rapidly. Reservations may still be made at the office of the Clubs, and a special section has been arranged for men not going in a party. Dance orders will be given out in the Main Lobby Tuesday and it will be possible to procure them at the door. The concert is to begin at 8.00 o'clock and reservations will not be held after that hour.

The final preliminary concert will be rendered by the Clubs to the girls of Simmons' College, at 8 o'clock Saturday evening in the Simmons' College Refractory. Dancing will follow the entertainment. The place is reached by taking either a Cypress street or Chestnut Hill car and getting off at Short street. The Club Members will assemble at the auditorium at 7.45 o'clock.

Last Tuesday evening the Clubs gave the second concert and were exceptionally well received by a fair audience. There was dancing during the intermission as well as after the concert.

TECHNOLOGY MATRONS GIVE TEA

The Technology matrons entertained the "co-eds" and the members of the instructing staff of the Institute at tea last Tuesday afternoon in the Emma Rogers room. The event proved to be one of the most successful social functions of the season, being unusually well attended. Mrs. Maclaurin received and Mrs. Franklin assisted.

THERE WILL BE AN IMPORTANT MEETING OF THE MEN WHO ARE IN THE CIRCULATION COMPETITION OF THE TECH SATURDAY AT 12.00 O'CLOCK.

CALENDAR

Thursday, December 6, 1917

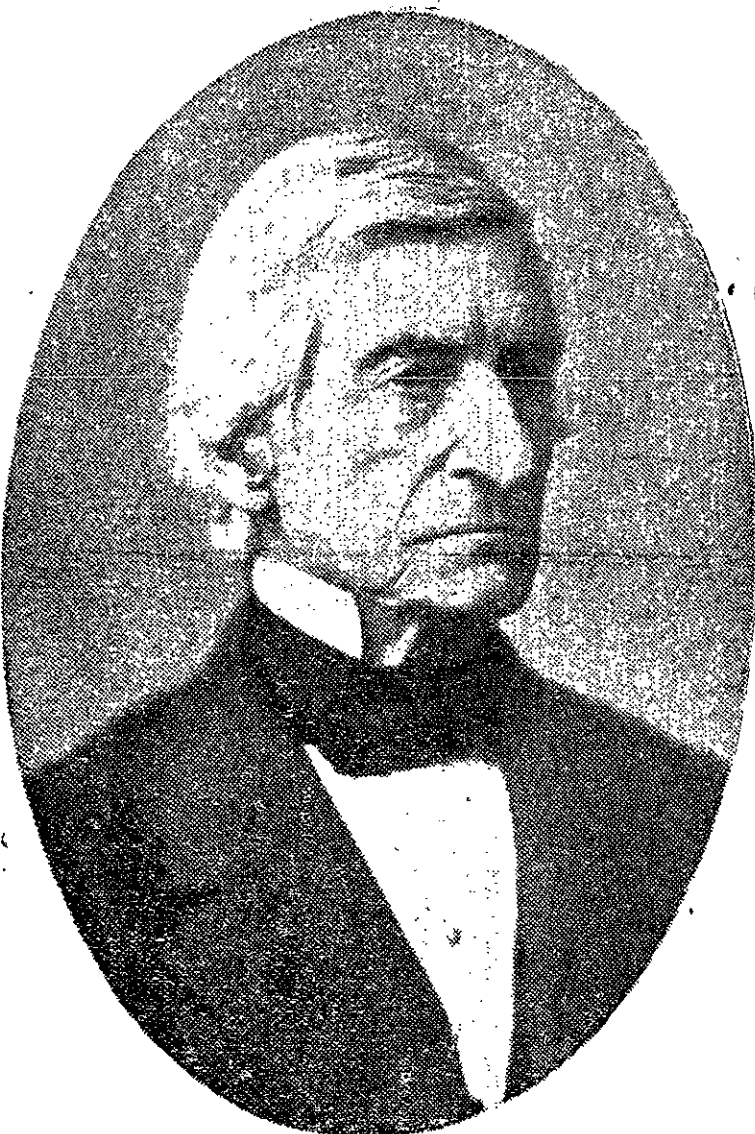
- 2.00 P. M.—Chemical Society to meet in lobby for trip to Carter Ink Plant.
- 5.00 P. M.—Track Meeting in room 10-250. All members are requested to be present.
- 5.05 P. M.—Institute Committee Meeting in room 10-275.
- 8.00 P. M.—Technology Orchestra Concert at Somerville.

Friday, December 7, 1917

- 1.15 P. M.—Institute Committee Picture at Notman's Studio, 1286 Massachusetts avenue, Cambridge.

Saturday, December 8, 1917

- 8.00 P. M.—Founder's Day Celebration, Walker Memorial.
- 8.00 P. M.—Musical Clubs Concert in Refractory of Simmons College.



1804—WILLIAM BARTON ROGERS—1882

The Founder and First President of the Massachusetts Institute of Technology

President Rogers was born on Dec. 7, 1804, in Philadelphia, Pennsylvania, of Scotch-Irish parentage, and was educated by his father, who was a professor. He had three brothers, all of whom were world famous. In 1846, in co-operation with his brothers, he laid out plans for the Institute. He came to Boston in 1849, and began his work for the Institute in 1859, practically living at the State House seeking the legislation which would make the Institute possible.

In 1861 he succeeded in obtaining a

charter provided that he raise \$100,000 within two years. During the ensuing two years, he devoted all his time to raising this amount. Technology opened in 1865, having fifteen students on its rolls.

President Rogers remained President of the Institute until 1871, when he retired because of ill health. On May 30, 1882, at the graduation exercises, President Walker introduced ex-President Rogers. Dr. Rogers arose feebly and began to speak, swayed and fell dead, still carrying on the work of Technology.

HOCKEY CANDIDATES MEET

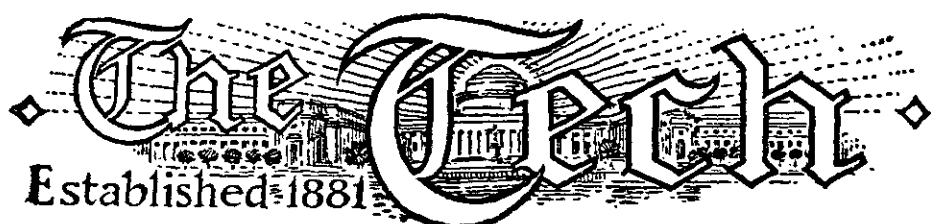
A meeting of candidates for the Hockey Team was held in room 1-290 on Monday last at 1.00 o'clock. About twenty men, among them some who have played for Exeter, were present. Captain W. B. Clark, '19, addressed the meeting and urged the men to get themselves into condition for the coming season's work.

Few freshmen have entered the competition for Second Assistant Manager. This competition is open to all first year men not on the team. The choice will be made in the Spring. The position of Second Assistant Manager leads to First Assistant Manager in the Sophomore year, and to Manager in the Junior year. Men wishing to compete should see or telephone Manager H. P. Duffill, '20, Somerville, 4852-M.

Due to the fact that there will be no varsity hockey, it is most urgent that a freshman hockey team be organized. The good players in the Institute are among the freshmen, and because of this fact the Advisory Council has given a chance to the first year men to organize a hockey team to represent the Institute this year.

In regard to this matter there will be a most important meeting of all men interested in the formation of such a team, whether or not they play, at 1.00 p. m. today in room 2-190.

This Year's Winter Concert May Be Your Last—Can You Afford to Miss It?



Entered as second-class matter, September 16, 1911, at the Postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Published twice a week during the college year by students of the Massachusetts Institute of Technology.

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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

IN CHARGE THIS ISSUE

Louis B. Harris '20.....Assistant Night Editor

THURSDAY, DECEMBER 6, 1917

FOUNDER'S DAY

SATURDAY night Technology will commemorate the birth of President William Barton Rogers, the founder of the Institute, with a smoker and simple exercises. Every loyal Technology man will be on hand to make the observance of Founder's Day a success. When the first gathering of this kind was inaugurated two years ago, the old Technology Union was crowded to the doors by an enthusiastic assemblage which heard of President Roger's work and ideals. Certainly there can be few more interesting things for us than the history of the man whose work culminates in the existence of an institution such as Technology is today. The Institute is a monument to the unceasing effort and sacrifices of our first President. No other man ever connected with the Institute will be revered as much as is the founder of Technology, not only because of his inestimable accomplishment, but also because of his unflinching devotion to the Technology which he created, even to the very minute of his death. The smoker, a simple affair in itself, fittingly pays tribute to William Barton Rogers and every one owes it to himself and to the Institute to do the least that can be done to show his appreciation of what the founding of Technology means to every Institute man by attending.

ATTENTION, FRESHMEN

ANNOUNCEMENT has been made of the time of the conferences which are being held by the Professors in charge of the various courses in order to aid the first year men in making their choice. The proper choice of the course, and eventually the life work, which a man will pursue is one of the important factors in his success. At Technology there are numerous courses offered, fifteen in number, enough to satisfy a most diversified demand for technical education. Of course, a man can get technical training by taking one of the courses, but one can best succeed by specializing in that line which is most congenial. The Faculty requires a choice of course from the freshmen after the Christmas recess. All of the first year men will do well to attend every conference and learn something of what the courses teach and what the opportunities and work of graduates in each are.

The Wrestling Team carries on its practice in the basement of Building 2, on mats which are left on the floor to be trampled on by anyone who does not take the trouble to avoid them. Is it too presumptuous on our part to suggest that precautions be taken to insure proper sanitary conditions and safeguard the men from a recurrence of the skin disease which ran riot among them last year?

The Technology Monthly announces that its current issue has been sold out. This speaks well for the efforts of its board, but it is not necessarily an index of the coming popularity of the sheet, although we hope that it is. It was generally understood that the policy of the Monthly had changed and that this year would see fewer technical papers and more articles of general interest. Instead there was an abundance of technical news. It is also unfortunate that a publication such as the Monthly should be devoted almost solely to one activity. One of the editorials states that it is the purpose of the magazine to afford an organ for the expression of sundry undergraduate efforts. Would it not be well for the board to adhere to its announced purpose? Surely such an organ is in demand and will undoubtedly be appreciated and supported.

In another column of this issue appears an editorial which Major Cole clipped and sent in. A consideration of its contents will probably answer any questions which members of the Technology units may raise as to the propriety of the salute.

NEW GRAM COURSES

Junior and Sophomore Classes
May Graduate Early

The question of cram courses and early graduation has aroused considerable interest among the students of the Institute, but the Faculty has not made any decision in regard to these changes as yet. It is expected that the Sophomore and Junior classes will be graduated earlier than usual and that the freshman class will be affected by this intensive work. This will be definitely settled at the faculty meeting tomorrow afternoon.

It is expected that the Junior class will be graduated next October by omitting the equivalent of one term's work and continuing school through the Summer, and that the Sophomore class will be graduated a year from next June by following a similar course.

There is some doubt as to whether the freshmen class will continue school through the Summer or wait for another year before doing this. Those who intend to take a Chemistry course will be obliged to study Qualitative Analysis next Summer. An opinion was expressed, "that it would be difficult to do this and carry a regular schedule besides, so from the standpoint of those who have to go to Summer School anyway, it would seem advisable to wait another year before starting intensive work. The students would also be able to grasp the work better if they had another year to mature in."

SOMETHING ABOUT THE SALUTE.

(From the Chicago Tribune.)

A Callow youth, privileged to write for one of the evening papers from Camp Grant, declares that "the salute must go," that "the American people are not given to permitting themselves to be lowered socially by any mark of deference."

We must suggest that the individual writing this ignorant nonsense for a metropolitan paper be brought back and given a few rudimentary lessons in what the salute—either military or civilian—means. We do not know where he was bred, if he was bred at all, but it is time, if he is to write at Camp Grant, or elsewhere, he learned that no man, American or otherwise, is "lowered socially" by any "mark of deference." A man is "lowered socially" by the neglect of marks of deference, not by yielding them.

The salute in the Army—and this is true of all armies except the army that ran away before the Germans in Russia recently—is a symbol of the discipline without which an army is an ungovernable mob which a handful of real soldiers can put to rout. The young ignoramus writes from Camp Grant, "Why should an American citizen humble himself to every stripe or collar mark that indicates a grade higher in the service than himself?" The answer is that he does not humble himself. The salute is a mark of respect not given to the individual but to the rank, therefore to the system of which the democratic soldier is supposed to be an intelligent part, therefore the salute is in a sense a salute to one's self. The salute to the hat cord of the second lieutenant, is a salute to the principle of order, or discipline, or organized effort. It is therefore answered by the superior rank. Neither the private who salutes nor the major general who returns the salute has lowered himself a hairbreadth, socially or any other way, any more than has a civilian who has doffed his hat to a woman, a white-haired old man, or the flag of his country.

As Russian army chaos, with its shame, and waste of life at the front, has proved, discipline and the recognition of organization in effort are as necessary in a democratic army as in any other. There is no army, in fact, without it. We have heard of the splendid spirit at Camp Grant, and we are humiliated that it is a newspaper man who has been guilty of such ignorance of principle and of the very nature of true personal dignity and self-respect. On one of the proudest escutcheons of European monarchy is the phrase "I serve." It has been borne by kings into battle, and no prouder sentence can come from the lips of an American soldier. The salute is a mark of deference which honors the man who salutes fully as much as the man who is saluted, for the ceremony is a mark of deference to that principle of order which alone makes civilization possible, and no man's worth or dignity but are raised by recognition of this truth. Without its recognition democracy becomes chaos, and chaos brings despotism.

Every American soldier may be proud to salute an officer in the American Army or Navy, as every officer is proud to salute him. Both serve a great nation in a great cause, and the marks of deference they show in that service are marks of intelligence and honor.

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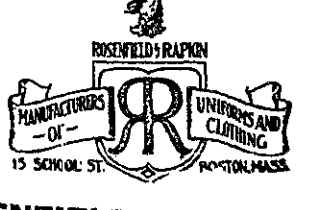
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Technology Men in War Service

The Tech wishes to print the names of Technology men in War Service, whether in a military or industrial capacity, together with the branch of such service with which they have allied themselves.

Notification of any corrections or changes in the information given in this column will be appreciated. Address any information of this character to the Managing Editor, The Tech, Massachusetts avenue, Cambridge, Mass.

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E. P. BROOKS, in military service abroad. C. F. BRUSH, 1st Lieut., Ord. Dept., O. R. C.

F. H. BUTTERFIELD, Industrial Reserve. A. C. CARLTON, 2nd Lieut., 3rd Inf., U. S. A.

P. L. CARROLL, Lieut., U. S. N. F. S. CARSON, Corp., Canadian Engrs. Overseas Unit.

S. L. CHISHOLM, Co. E, 301st Inf., N. A. W. L. CLARK, Lieut., C. A. C. L. L. CLAYTON, 2nd Lieut., C. A. C.

E. W. CURTIN, Prov. 2nd Lieut., C. A. C. D. P. DANIELS, Aviation Corps. A. A. DICKSON, 1st Lieut., Reg. A., C. A. C.

M. J. DUMIT, Priv., Gas Defense, N. A. A. P. DUNHAM, Ord. Dept. W. W. EATON, 2nd Lieut., in France.

H. P. EDDY, Naval Reserve. R. C. ERB, Industrial Reserve. P. FLAGG, Priv., 304th Engrs. Corps, N. A.

H. N. FRENCH, Ensign, Navy. Training at Annapolis. H. B. GARDNER, Capt., Virginia N. G.

J. P. GARDNER, Prov. 1st Lieut., C. A. C. J. F. GARGAN, Prov. 2nd Lieut., Marine Corps.

THOS. M. GIBBONS, Private, Co. K, 302nd Inf. G. H. GOUS, 2nd Lieut., C. A. C. GUY A. GRAY, 2nd Lieut., 301st Eng.

H. W. HAMILTON, 1st Lieut., Food Div., San. Corps. RICHARD HARDWICK, Co. E, 301st F. A., N. A.

C. W. HAWES, Industrial Service. Class of 1918

W. J. AHEARN, Co. 5, Avia. Sect. C. W. BLANCHARD, Signal Corps, at M. I. T.

S. E. CARTER, Co. G, 304th Inf. S. V. CHAMBERLAIN, Amer. Amb. Field Service.

J. L. CLARK, Research, Bureau of Mines, Washington. J. W. CLARKSON, Balloon Service, Avia. Sect.

H. C. CLAYTON, Q. M., N. R. F. C. C. COCHRANE, Mach. Mate, U. S. N. R. F.

F. R. CREEDON, 2nd Lieut., Field Artillery. G. B. CUTTS, 2nd Lieut., U. S. R.

Field Artillery. R. E. DEMERRITT, Prov. 2nd Lieut., C. A. C.

T. J. DONNELLY, JR., in service. R. L. FALKENBERG, in service. R. C. FLEWELLING, 2nd Lieut., Cavalry.

T. S. FOGARTY, at Camp Devens. S. H. FRANKLIN, 2nd Lieut., C. A. C. HERBERT J. GOLDSMITH, 12th Unit, Base Hospital.

PRESCOTT W. GOULD, Co. C, 102nd Machine Gun Battalion. WM. A. GRAY, JR., 2nd Lieut., U. S. A.

HORACE M. GUILBERT, 1st Cl. Priv., Avia. Sec., Sig. R. C. HERBERT W. HATCH, Private, San. Corps.

KARL R. HATTEN, Ensign, U. S. N. R. Class of 1919

JAMES W. GIBSON, 1st Lieut., Inf. ANNING S. HAMMOND, Sgt., Bat. F, 341st F. A.

Class of 1920

RICHARD K. GIBSON, JR., 2nd Lieut., Co. F., Inf.

Class of 1919 E. S. FIELDS, JR., Corp., Co. B, 19th Inf.

Class of 1920 E. C. S. BIGELOW, Red Cross Amb. Service.

W. M. CUSICK, 1st Lieut., Ord. Dept. J. M. ERVING, Priv., Battery F, 102nd Inf.

G. K. FRENCH, U. S. Avia. Corps.



UNIVERSITY OF PITTSBURGH—

Women students at the University of Pittsburgh are expected to do four hours' work under the direction of the department of Military Science. One hour is set aside for military drill and the remaining three hours are devoted to the study of first aid, sanitation, making surgical dressings, and also preparing Christmas packages for men in military service.

NEBRASKA—Final figures on the Y. M. C. A. drive at Nebraska show that the Cornhuskers have gone over the top more than \$8,000, its quota of the \$15,000 having been oversubscribed almost sixty per cent.

DARTMOUTH—The daily paper published by the undergraduates at Hanover contains a column headed "Shredded Wheat," in which are printed terse statements of important happenings—war and political news—as well as matters of especial import to Dartmouth men. The origin of the clever title is obvious.

KANSAS—Col. E. M. Briggs of the university military departments has made a special trip to Fort Leavenworth to get information, if at all possible, on the status of undergraduate students in the second draft. His advice is to await the draft and seek the particular branch of the service for which one is suited after reaching the cantonment.

BROWN—Two hundred and sixty-two men attending Brown last year are now serving with the colors, it was announced recently. This comprises a good proportion of the total enrollment.

TUFTS—It has been decided by the Faculty of Tufts to award the Medical Students their degrees in February. The degrees in other branches, however, will be awarded as usual in June.

CHEMICAL SOCIETY TO VISIT CARTER INK COMPANY TODAY

Professor Franklin, Formerly of Lehigh, to Speak at Next Meeting.

The members of the Chemical Society will make a trip of inspection to the plant of the Carter Ink Co. this afternoon. This concern maintains a large plant in Cambridge near Kendall square and manufactures the well known Carter's Inks. In addition to this product they make paste, mucilage, carbon paper, typewriter ribbons, chemical ink and rust removers. The plant has recently been enlarged and some of the latest types of machinery installed.

Several students of Course XV are at present engaged in work in the administrative part of the concern so it is expected that those making the trip will be given an opportunity to make a detailed inspection of the organization and management of such executive departments as the sales and advertising departments besides the methods employed in manufacturing.

Professor Talbot is a firm believer in broadening a technical education by actually seeing the industrial operations wherever possible. He has extended an invitation to the members of his class in Industrial Chemistry, including the Harvard and Radcliffe members to attend this trip. Those who are going should meet in the main lobby at 2.00 o'clock as it is necessary to leave promptly at this time. No sign ups are required.

The society has secured for its next meeting on December 11, Professor W. S. Franklin, formerly of Lehigh University. Professor Franklin is well known as a lecturer, having appeared before the majority of the professional electro-chemical and electrical societies of this country. The subject is "The Use of Mechanical Devices in Electricity and Magnetism." The lecture will be along the lines of his address to the American Electro-Chemical Society at their Atlantic City Convention. The lecture will be illustrated by fifteen experiments for which Professor Franklin is said to have some interesting apparatus.

Plans for the election of a new set of officers will be discussed at this meeting.

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RICH POTASH DEPOSIT WILL HELP WIN THE WAR

At a recent meeting of the American Chemical Society Dr. Nichols, of the National Research Council, discussed the question of potash and said that "the greatest known deposit of potash in the world, estimated to be worth more than a billion dollars, it at Lake Searles, California, and awaits development." According to the Geological Survey the lake is estimated to contain in solution 20,000,000 tons of potash.

"Before the war our supplies of potash came from Germany. Imports were 529,000 tons in 1913, but only 10,000 last year, and the old price has been multiplied by ten. We are producing small quantities from feldspar, alunite, cement waste, and sea-weed, but very much more is needed.

"Development of the lake deposits depends upon Congress, because the lake and surrounding land were withdrawn some time ago by the Government from the operation of mining and land settlement laws. A bill to permit and promote utilization of this potash was passed in the Senate on August 10. It provides for leases, if satisfactory terms concerning rentals and royalties can be made. The potash should be taken out by private companies or the Government. Two companies have accessible reduction plants which could begin the work at once, but it would be necessary for the Government to expend \$1,000,000 in preparation. We suggest that the American Chemical Society by resolution ask Congress to take final action upon the bill without delay. It has the support of the Council of National Defense. In committee hearings and the Senate debate reference was made to the remark of Dr. Wilhelm Ostwald, German privy Councillor, that 'America went into the war like a man with a rope around his neck, a rope which is in enemy's hands, because Germany, having 'a world monopoly of potash, can dictate which of the nations shall have plenty of food and which shall starve.' Even if we can get no potash, fertilizers for the farms, we shall not starve, but in Searles Lake there is an ample supply for many years to come."

THE SALE OF UNITED STATES THRIFT STAMPS ANNOUNCED

The United States government has announced the sale of war savings certificates and thrift stamps beginning December 3, 1917. The purchase will be made as simple as the buying of postage stamps, for the stamps may be bought at any postoffice and in most banks, railroad stations, stores and factories.

During December, 1917, and January, 1918, war saving stamps will sell for \$4.12. At the beginning of each month after January, 1918, the price of the stamp will advance one per cent per month. All stamps bought in 1918 will mature on January 1, 1923, and will be redeemed for \$5.00.

With the purchase of these war-savings stamps the government will give a card large enough to hold twenty such stamps. The cost of twenty stamps would be \$82.40. In 1923 the stamp will be redeemed for \$100.00, giving the owner \$17.60 for the use of his money. This amounts to four per cent interest compounded quarterly.

Thrift stamps will be sold for twenty-five cents, and as they are purchased will be pasted on thrift cards. When twenty of these stamps, amounting to \$4.00, have been purchased, the thrift stamp may be exchanged for a war-savings stamp, by turning in the card and paying the difference between the \$4.00 and the current price of the war-savings stamp. They will then begin to bear interest at four per cent, compounded quarterly.

The government hopes that, by selling stamps for such small amounts, thrift will be promoted and that everyone will have a hand in the final winning of the war.

GOVERNMENT CALLS ENGINEERS

(Continued from page 1)

stating experience, education and status in the draft.

Picked men in engineering trades are required for service abroad in the non-flying Air Service of the U. S. A., to compete for rank as non-commissioned officers. They will receive special training in their trades as citizens and when qualified will be raised to corporals or sergeants. Practical training will be given in work on airplanes, trucks, and construction of airdromes. The government pays all expenses, and in addition the men receive pay in proportion to their services. Applications should be sent to the Volunteer Bureau, 119 D St., N. E. Washington, D. C. Candidates must be physically sound, white, and between the ages of 18 and 48.

Training schools for electricians will be opened about November 19, for temporary specialists in the Coast Artillery Corps, to fit men for the rank of Electrician Sergeants. Those having two years or more of college training in electricity and mechanics are preferred. The training and work will consist in the care, operation, and repair of power plants, telephone systems, searchlights, gas engines and cables. The compensation ranges from forty-four to eighty-one dollars per month according to the rank, in addition to living expenses. Applications should be sent to the office of the Coast Artillery District in which the applicant is living.

War preparation is being greatly retarded by the lack of mechanical draftsmen, and there is an opening for those experienced in this profession. Applications should be sent to the National Civil Service Reform League, 79 Wall St., New York City.

NOTICES

INSTITUTE COMMITTEE — There will be a meeting of the Institute Committee this afternoon at 5.05 o'clock in room 10-275.

INSTITUTE COMMITTEE PICTURE — The Institute Committee Picture for Technique 1919 will be taken tomorrow afternoon at 1.15 o'clock at Notman's Studio, 1286 Massachusetts avenue, Cambridge.

SUMMER READING — I shall be in my office, 2-279, daily from 1.00 to 1.30 till the Christmas vacation, to receive reports on Summer Reading. Students who wish to obtain credits for this subject on the mid-year reports should call at the earliest possible moment because the grades are sent in early in January, and a written paper is required, which must be done after the conference with me.

A. T. ROBINSON.

LOST — A Cream Crepe de Chine Scarf (Ladies') on Saturday, Nov. 24, 1917, at the Dormitory Dance. Finder please return to R. Peverell Warriner, Technology Dormitories, C601.

CREW MANAGERS RECEIVE APPOINTMENTS FOR 1918

Rowing Practice to Begin Soon After Christmas Vacation

J. J. Hines, 19, of Brooklyn, N. Y., has been appointed second assistant manager of the Technology Rowing Association, following a competition lasting through the Spring and Fall of 1917. Hines will automatically become assistant manager next year, and manager the year following. R. G. Mossrop has been appointed Manager of the 1920 crew and will act as manager of the second crew of the association.

As a result of freshman competition this fall, E. T. Steffian has been appointed manager of the 1921 crew. S. Nixon, '21, and W. F. Clements, '21, have been retained for further competition next Spring. These three men will compete for the position of second assistant manager of the association.

Last Saturday evening, Coach A. W. Stevens entertained the members of the victorious 1921 crew at dinner at the Harvard Club. Mr. Stevens does this same stunt every year for the winning crew, this generosity being characteristic of his interest in Technology rowing.

Informal rowing will begin immediately after Christmas vacation. Men may come out for practice on the machines which will be located at the Institute. During the month of January no attendance will be taken, but with the beginning of the new term practice will be held every day and will be substituted coming out. Further announcements for gymnasium work for all Freshmen for the Spring schedule of rowing will be made immediately after Christmas.

FOUNDER'S DAY

(Continued on page 4)

institution to which he devoted the energies of his life—is a gem in the glorious history of Technology.

Due to the radical changes which these critical times are forcing us to take, this may be the last All-Technology gathering that can be held for a long time. The committee in charge requests everyone to make an effort to be present.

MECHANICALS SEND DELEGATE TO A. S. M. E. CONVENTION

The president of the Mechanical Engineering Society, A. Saunders '18, is attending the convention of the American Society of Mechanical Engineers which is being held at New York City. It has been the custom of the local society to send a delegate to this convention each year. The delegate, while having no powers of voting, is able to be in touch with the big engineering organizations of the country and gains much valuable information for the Technology members.

The trip to Chestnut Hill which was to be taken last Saturday was postponed on account of rain. It is hoped that this Saturday will be favorable for the trip. The society expects to have a Smoker tomorrow evening, notice of which will be posted on the bulletin board.

JUNIORS LEADING IN DRIVE FOR TECHNIQUE SUBSCRIPTIONS

The Juniors were leading in the Technique drive at 5.00 o'clock yesterday. The subscriptions by classes follow: about fifteen per cent. of the Seniors; about twenty per cent. of the Juniors; about five per cent. of the Sophomores; and about four per cent. of the freshmen. A deposit of seventy-five cents is required at the time of the order and the remaining two dollars will be collected at the time of delivery.

Sign-ups for the Technique 1919 must be made early, for there will be no chance after December 22. The number of subscriptions is limited to one thousand. Collectors will be around to all the laboratories, and subscriptions will be taken any time at the Technique office in the Activities Building.



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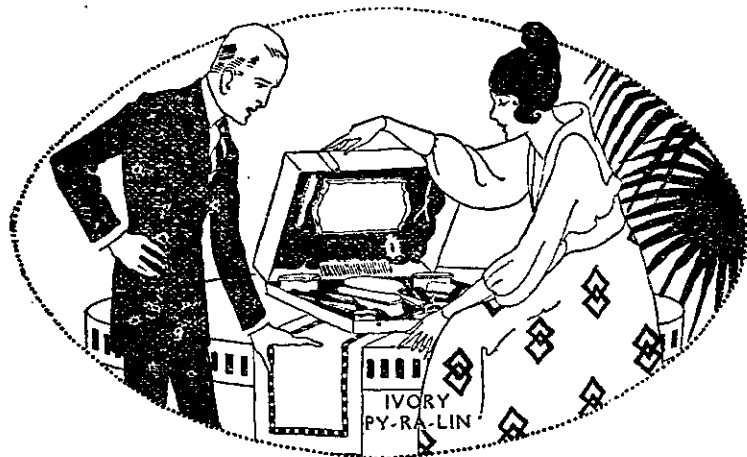
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